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# Look and Learn

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# Look and Learn

by WILBUR L. BEAUCHAMP, GERTRUDE CRAMPTON,

and WILLIAM S. GRAY, Reading Director

BASIC STUDIES IN SCIENCE

BOOK A

CURRICULUM FOUNDATION SERIES

W. J. GAGE & CO., Limited

TORONTO

**The illustrations** for this book were made by the following artists: Edna Farmer, A. F. Hurford, Miriam Story Hurford, Earle Kirkbride, John Merryweather, J. M. O'Malley, Gregory Orloff, Dewey Proebsting, and Walter A. Weber.

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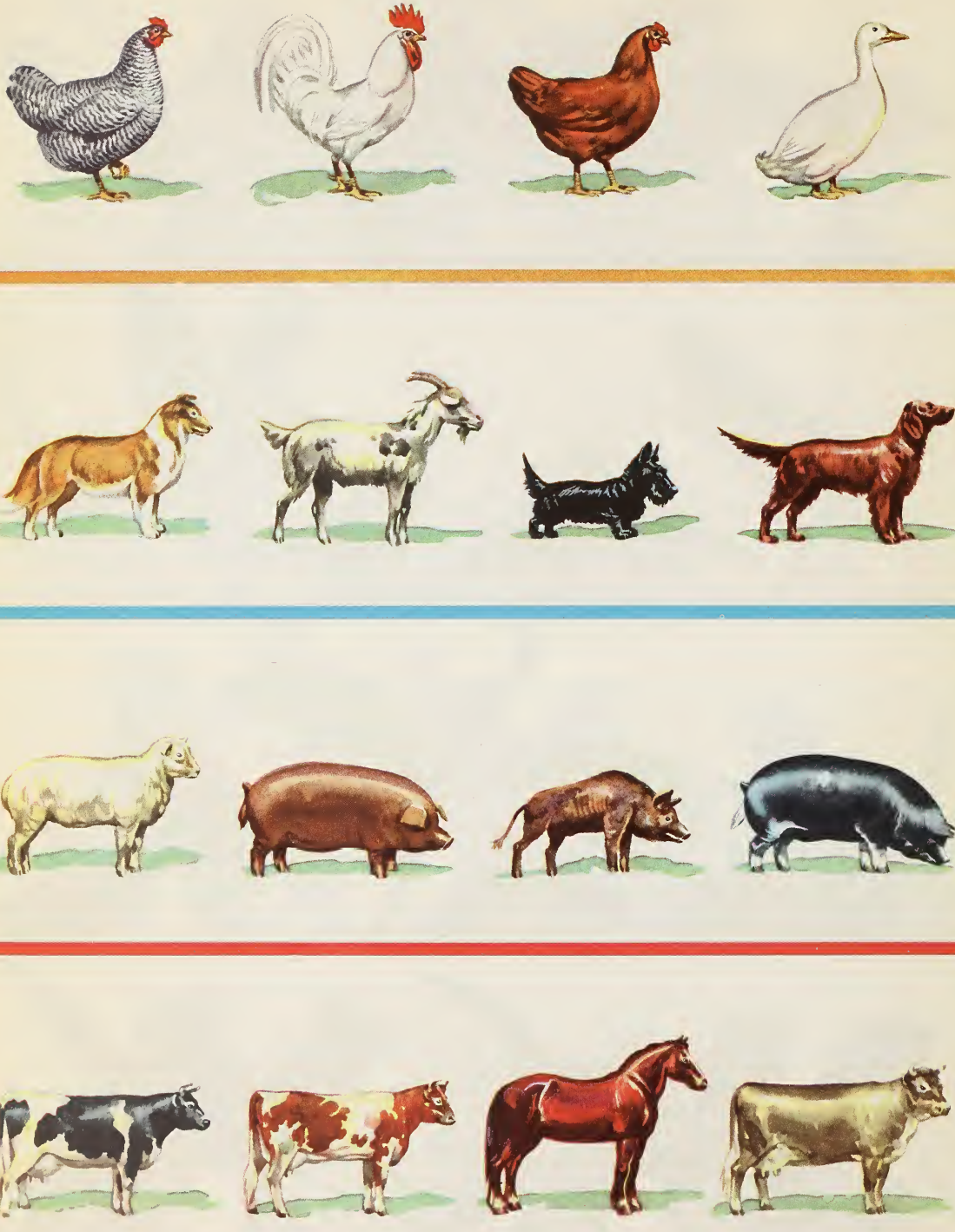
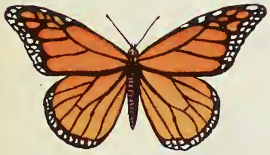
# A Friend for Puppy





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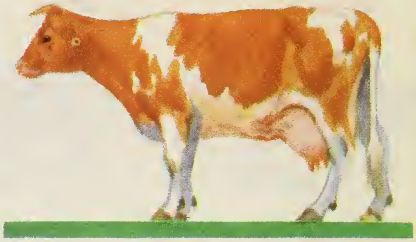
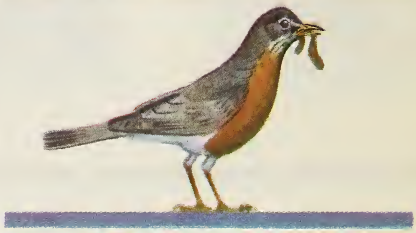
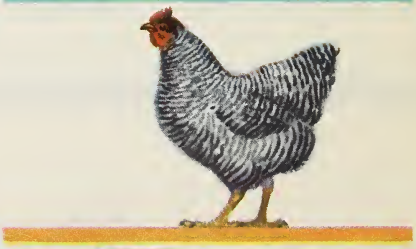
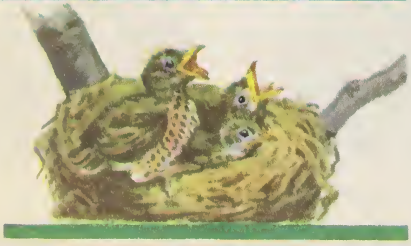


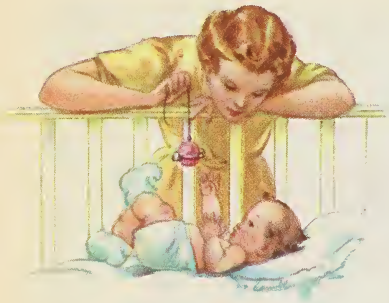






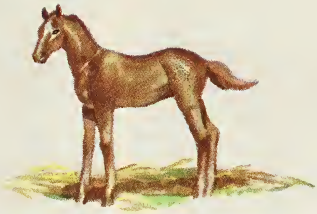
# Star

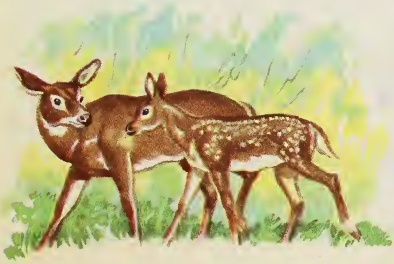
## Girls Grow Up

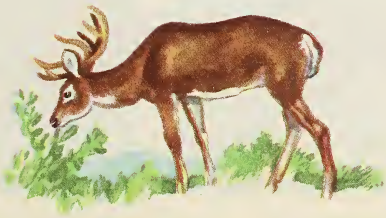


## Boys Grow Up

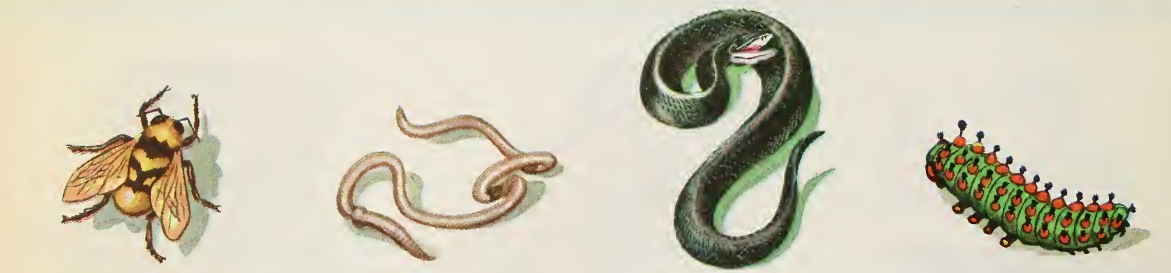
# Animals Grow Up

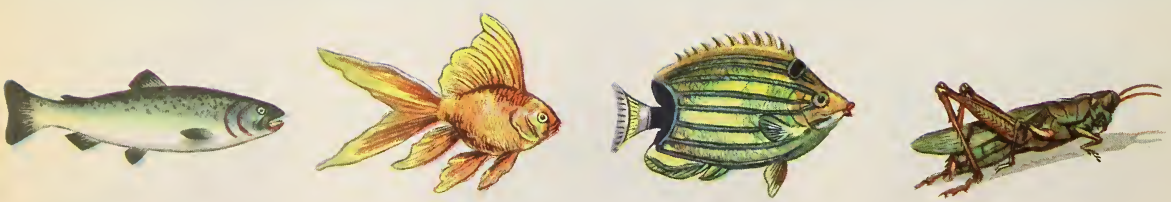




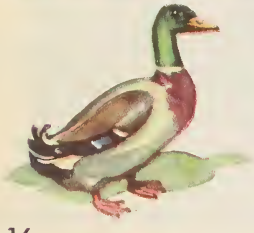


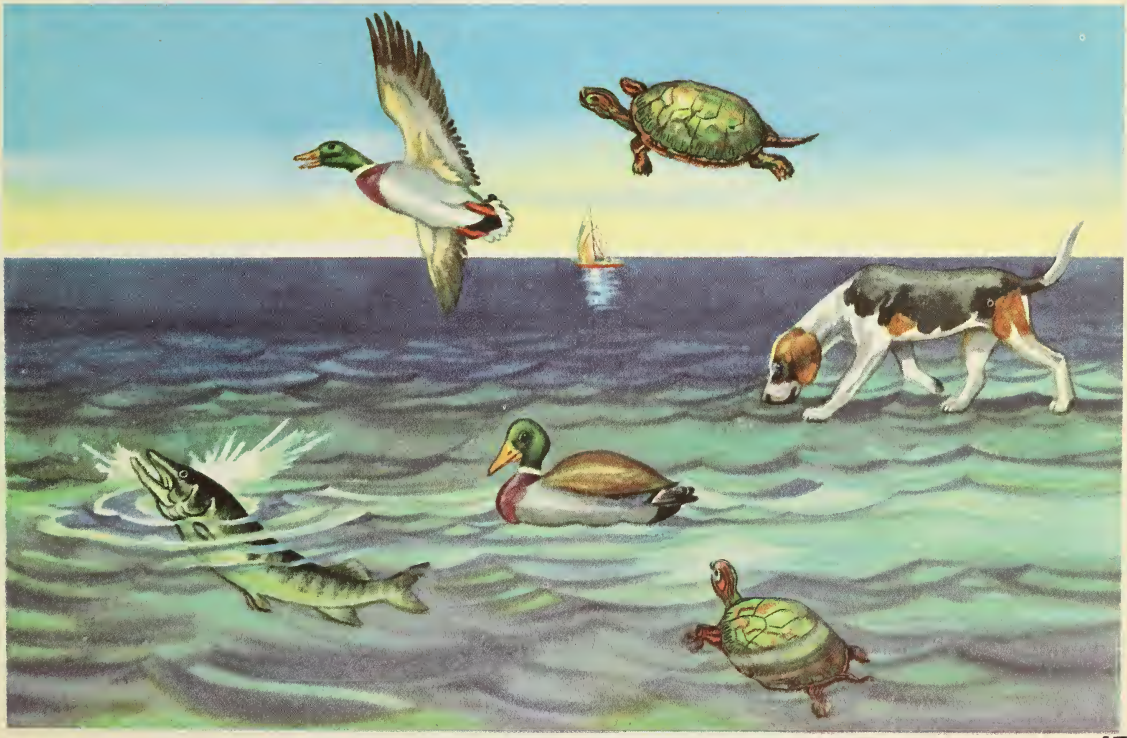
# Animals Move



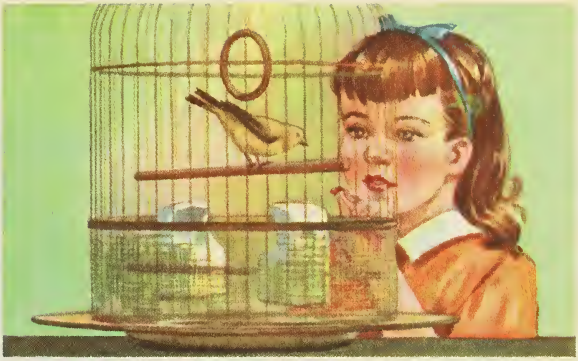


# Three Frightened Ducks

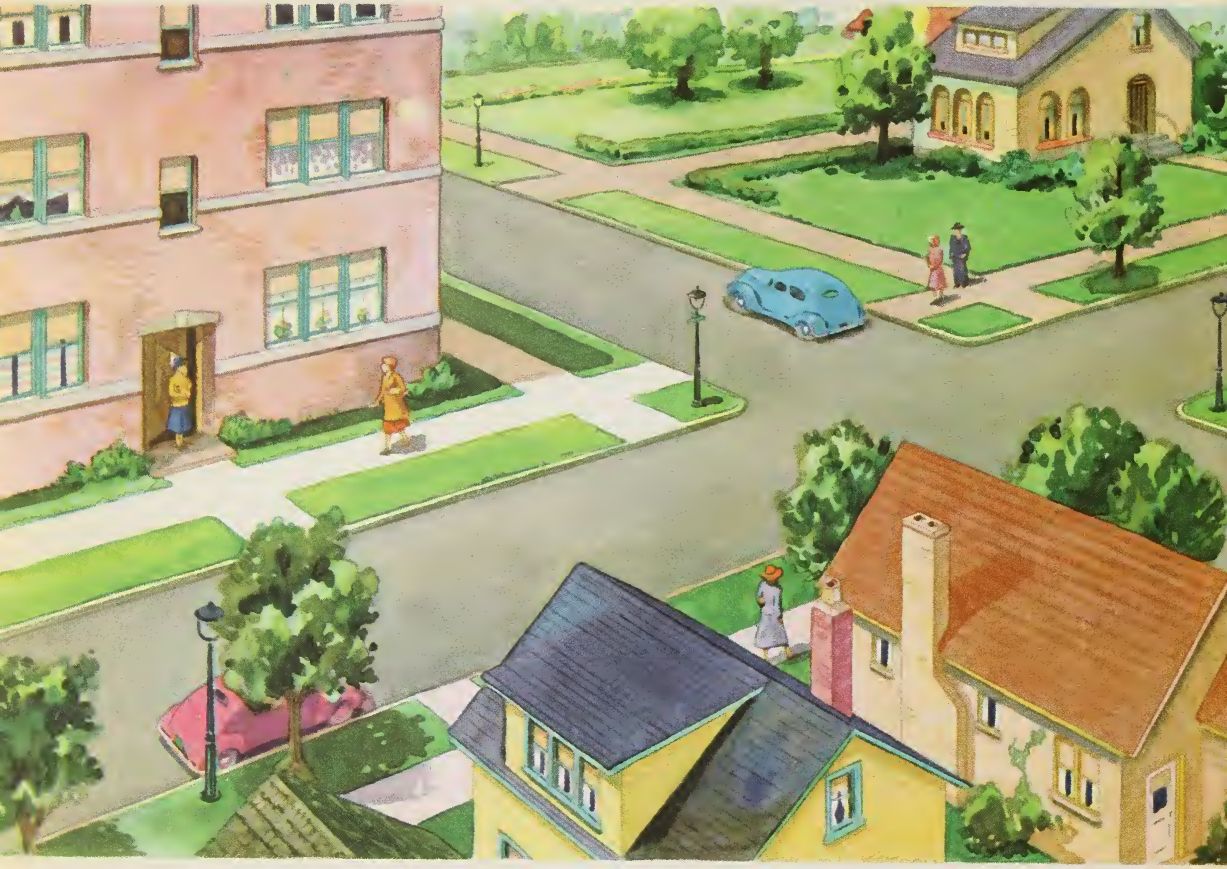




# The Hungry Red Fox

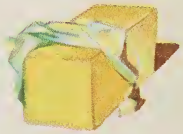


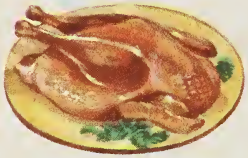
# Homes for People

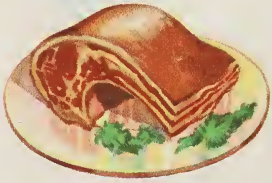


# Homes for Animals

# People Make Animal Homes



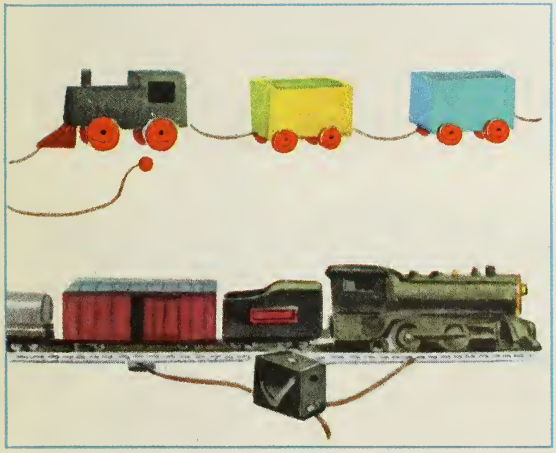


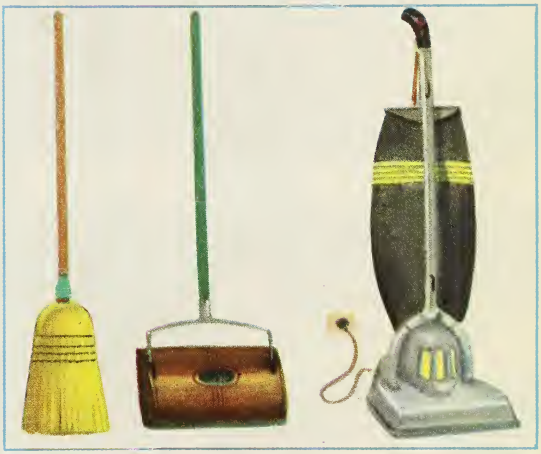


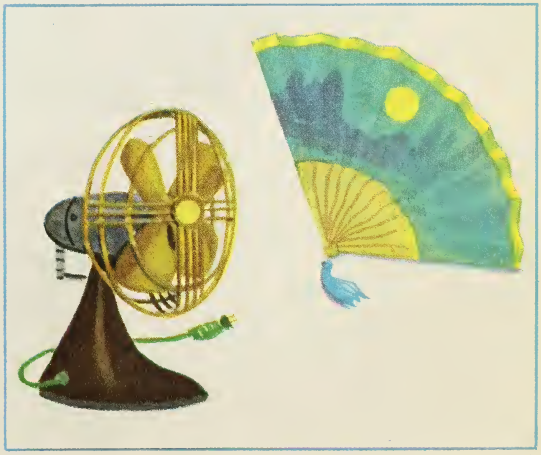
Machines

# Who Did It?

# Must It Be Turned On?

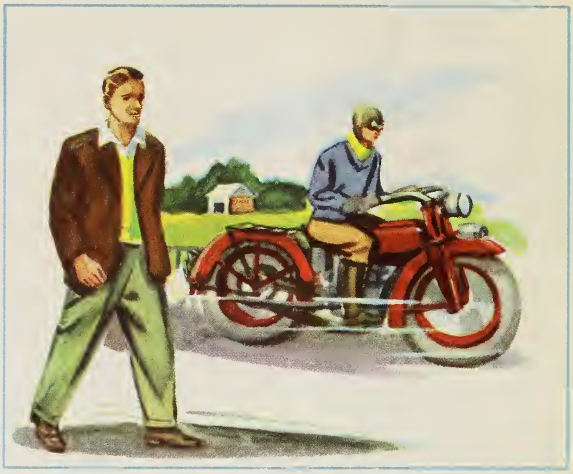


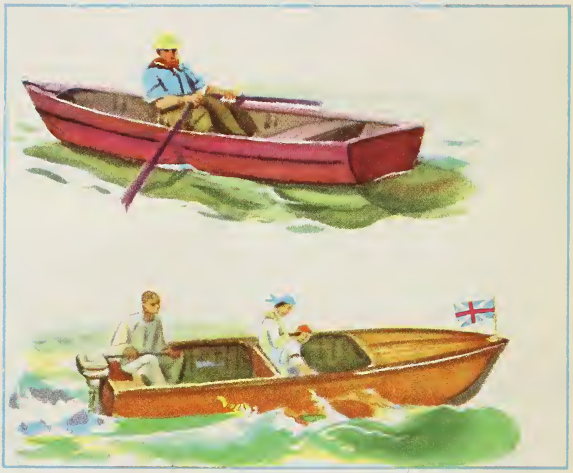




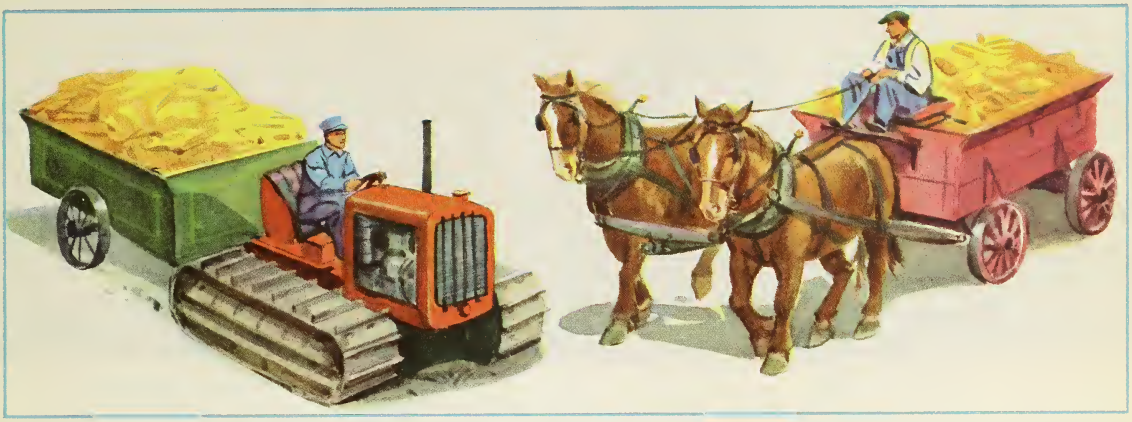
# Find the Easy Way

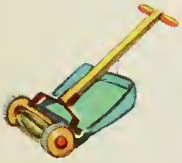
# Find the Fast Way

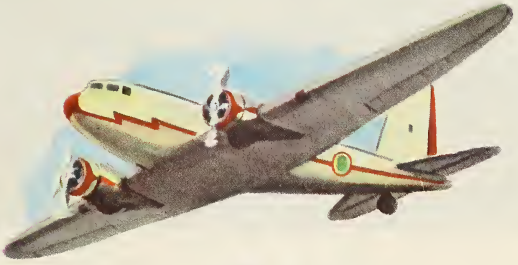


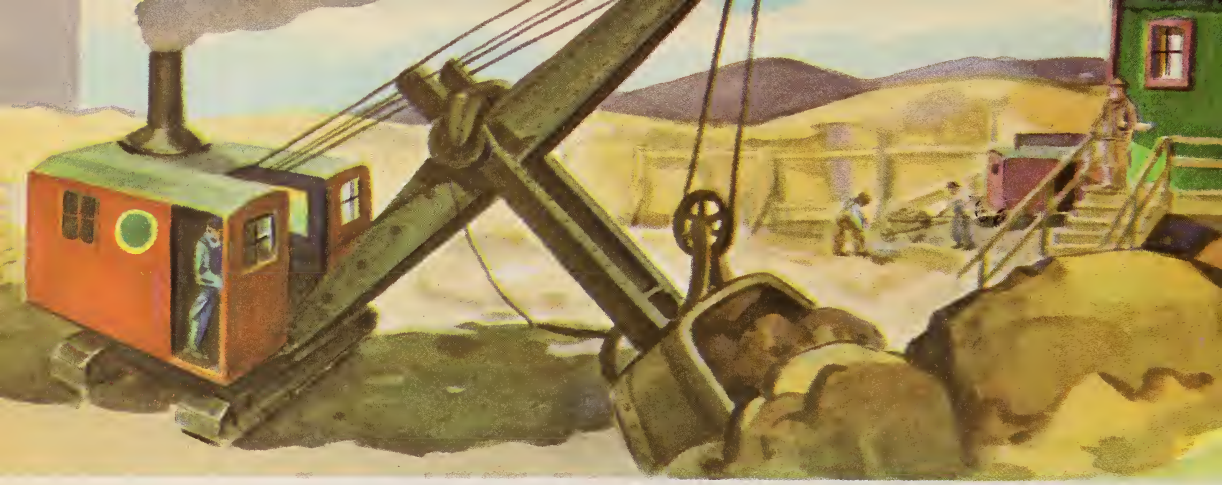


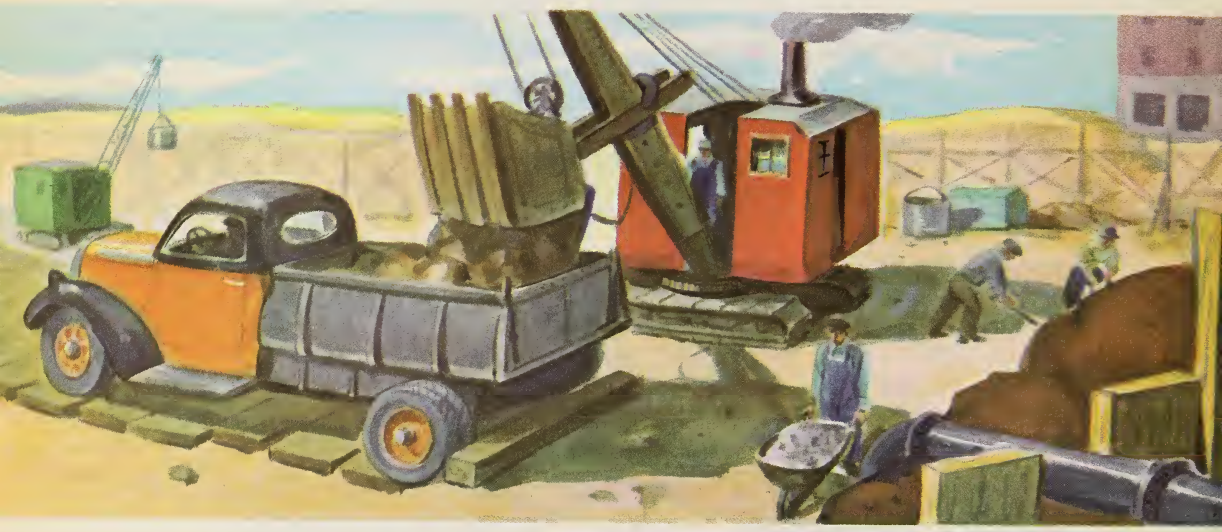
# Machines with Engines

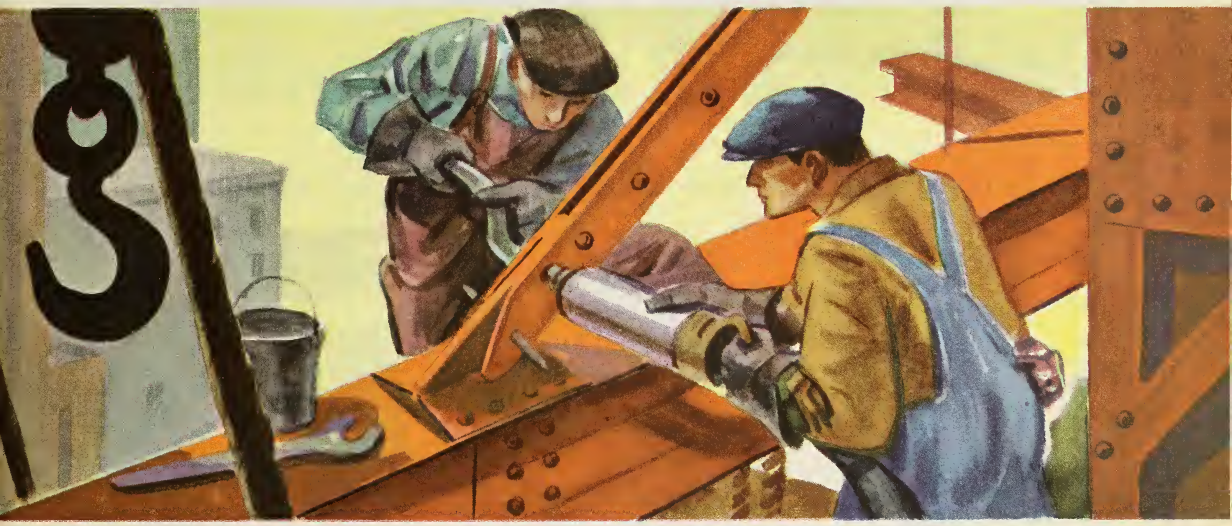




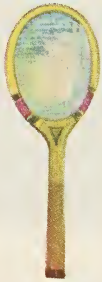


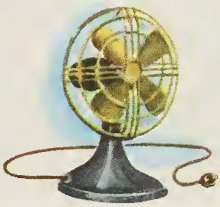


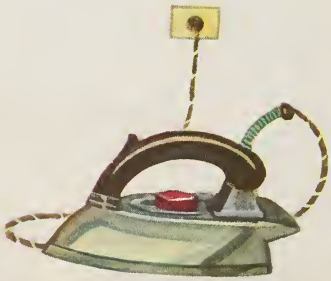


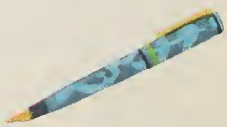


## Which Things Could She Use?

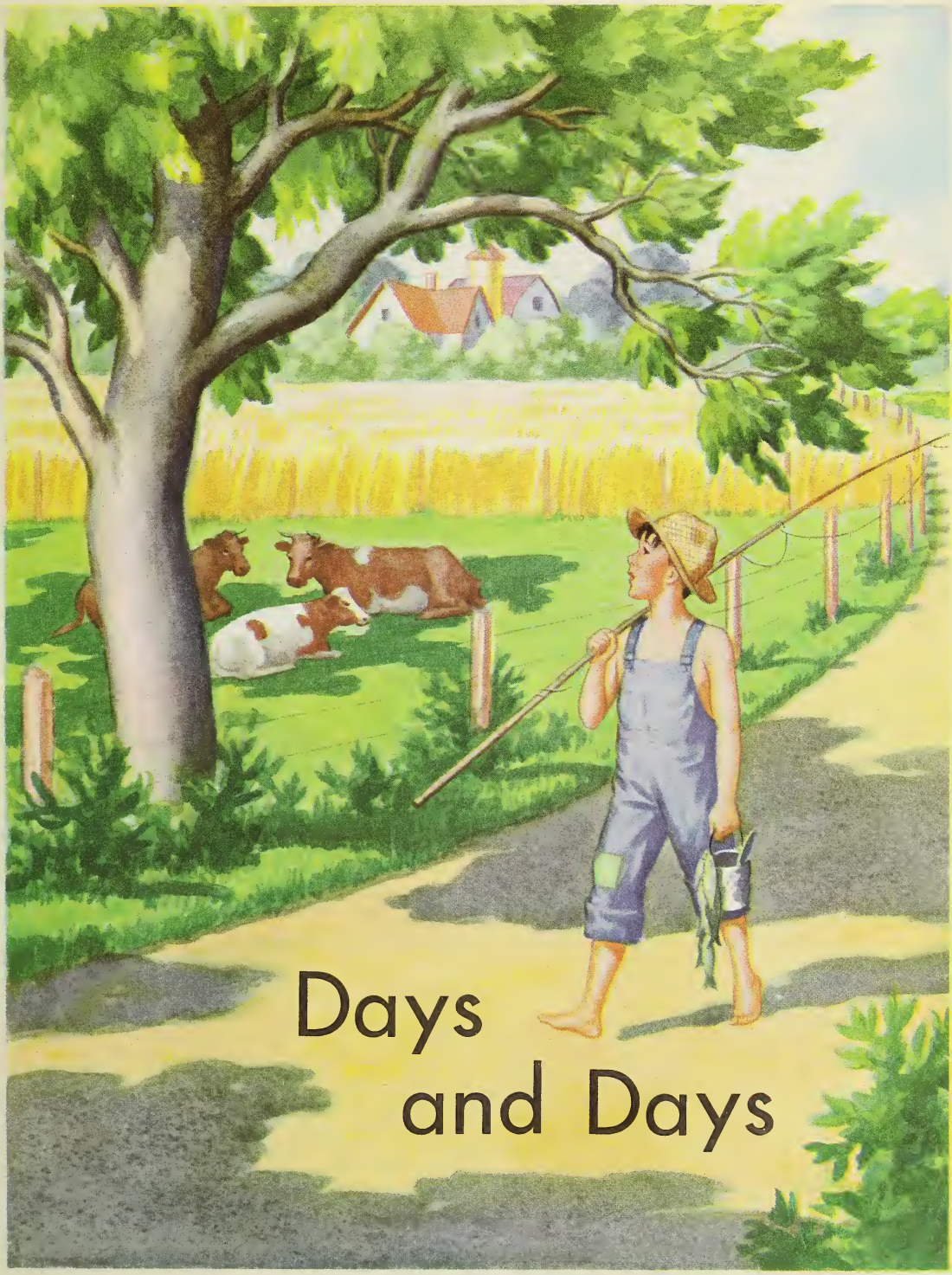




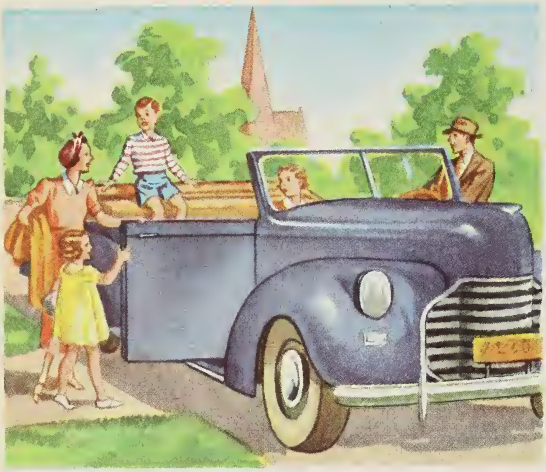


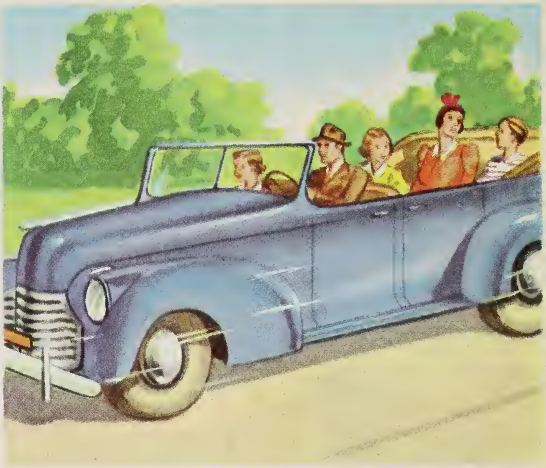


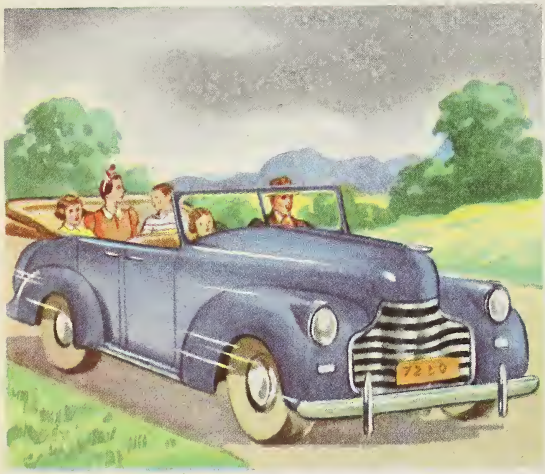
## Which Things Could He Use?


Days
and Days

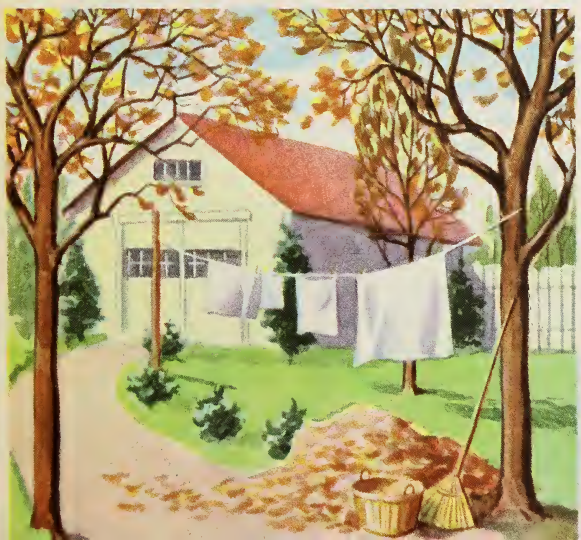
# The Rainstorm







# What Will Happen?

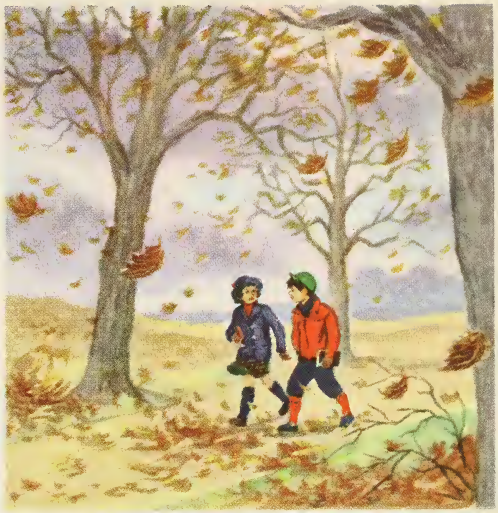


## Rainy Days

## Sunny Days

## Windy Days

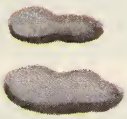
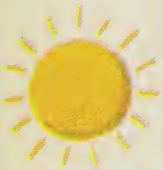
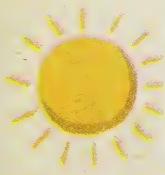
## Cloudy Days



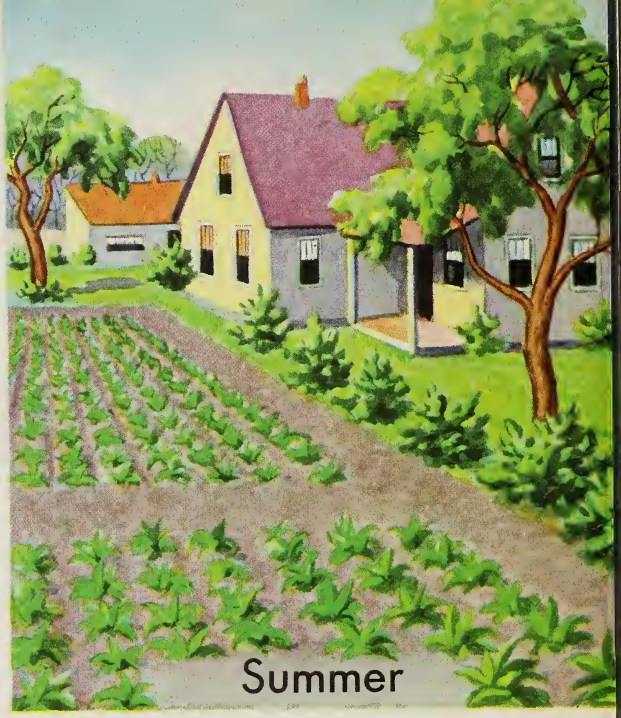
# Weather Stories

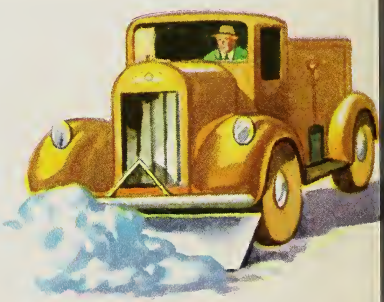
# Our Weather Chart

# MARCH

| SUN | MON | TUE | WED | THU | FRI | SAT |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10  | 11 | 12 | 13 |
| 14  | 15 | 16 | 17 | 18 | 19 | 20 |
| 21  | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

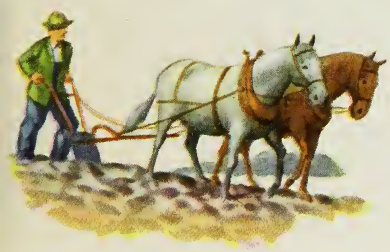
Spring

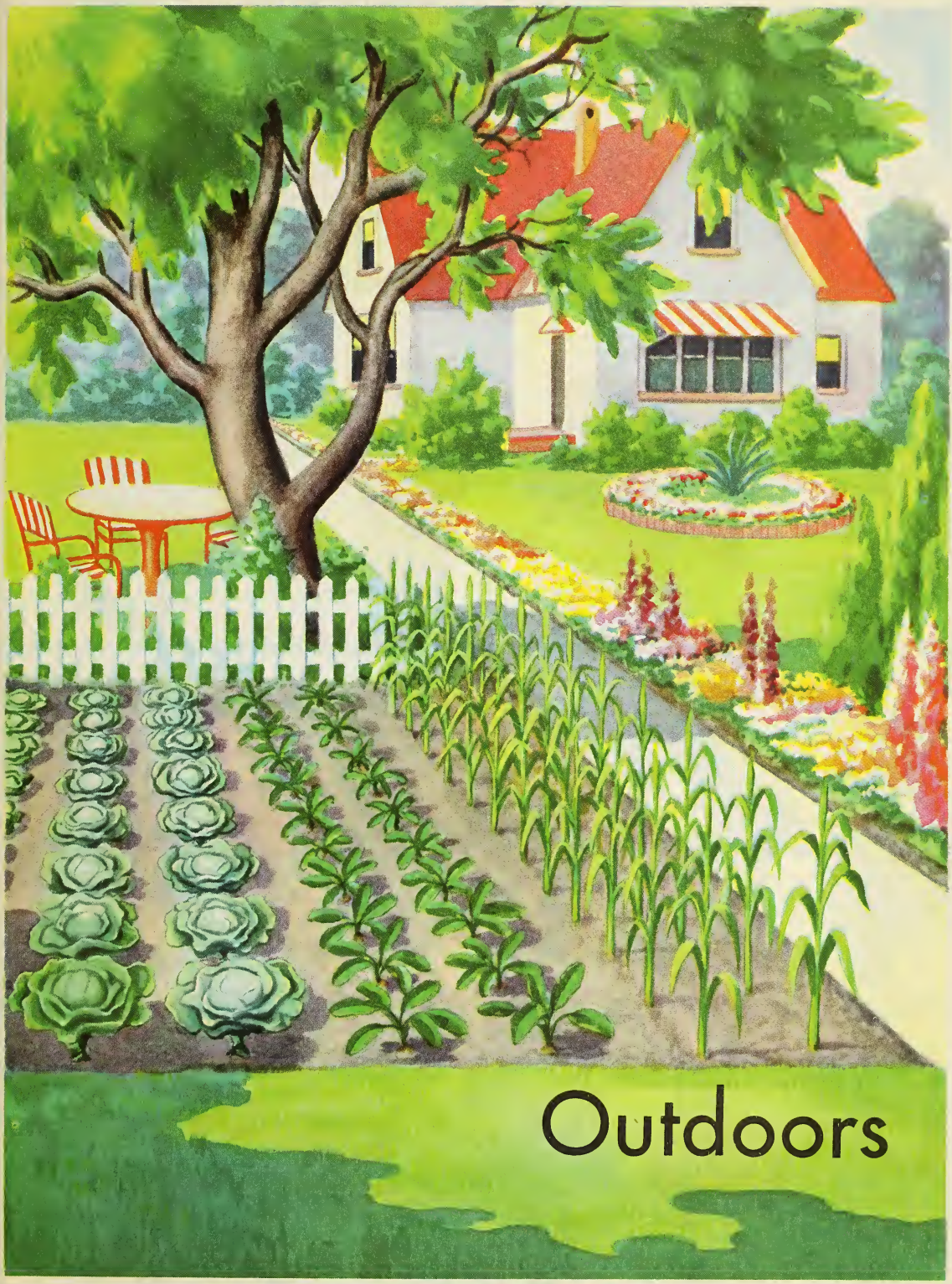

Summer

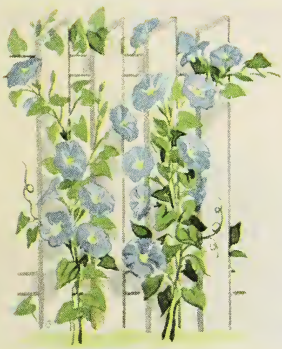


Autumn

Winter



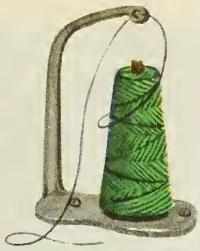

Outdoors

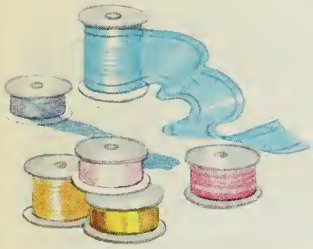


# Plants and Animals

# A Naughty Kitten

# The Flower Shop





# Tree Fun

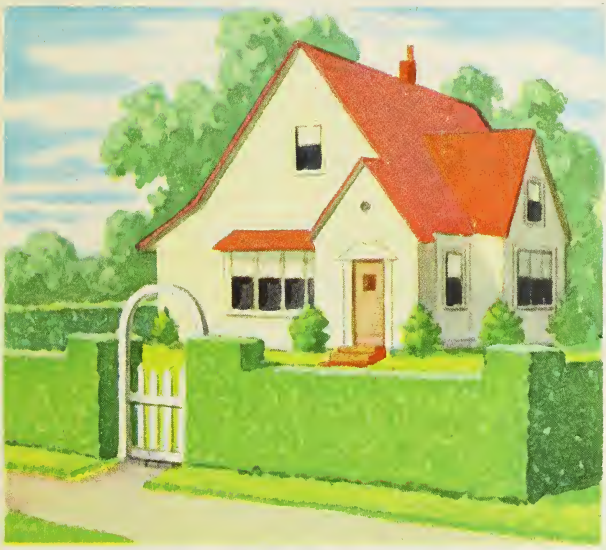
# Shade Trees

# Fruit Trees

# The Grocery Store

# What Part Do We Eat?

# A Home Grows Pretty



# Index to Concepts

Pages in ***Look and Learn*** that promote readiness for a concept appear in front of the boldface number in the index that follows. Pages that present developmental treatment of a concept are printed in **boldface.** Pages that provide for extension, enrichment, and application of concepts are printed in roman type following the numbers in boldface. For example, pages 3, 4-5, 10, 11 introduce the concept that animals can move about; page **14** presents the first detailed treatment of the concept and pages 15, 16, 17, 18, 19, 20, 21 provide opportunity for further clarification, extension, and application of the concept.


UNIT I: Animals

A. There are many kinds of animals.
   1. Animals have definite physical characteristics by which one can be distinguished from another. Pages 3, 4-5, **6, 7,** 8-9, 10, 11, 13, 14.
      a. They may differ in color and marking. Pages 4-5, **6, 7,** 8-9, 10, 11.
      b. They may differ in general shape and size of body. Pages 4-5, **6, 7,** 8-9, 10, 11.
      c. They may differ in body covering. Pages 4-5, **6, 7,** 8-9, 10.
   2. Species within a family have characteristics which are alike for every member of the family. Pages 4-5, **8-9,** 12.
   3. Most baby animals are more like their parents than like other animals. Pages 3, **10,** 11, 12, 13.
      a. Young animals may differ in size, color, and minor structural details. Pages **10,** 11, 12.
      b. Young animals resemble parents in gross structure. Pages **10,** 11, 12, 13.
      c. The resemblance in appearance, size, and ability to do things increases as the animals grow. Pages **11,** 12, 13.

B. Animals live in various environments.
   1. Some animals live on land. Pages 3, 4-5, 15, **16,** 17, 18, 19, 20, 21, 22, 23.
   2. Some animals live in water. Pages 9, 14, **16,** 17, 19.
   3. Some animals live on land and can fly. Pages 3, **16,** 17, 19, 20, 21, 22.
   4. Some animals live both on land and in water. Pages 3, 4-5, 15, **16,** 17.

C. Animals carry on activities to keep alive.
   1. Animals can move about. Pages 3, 4-5, 10, 11, **14,** 15, 16, 17, 18, 19, 20, 21.
      a. Some animals can walk, hop, or run. Pages 3, 4-5, 10, 11, **14,** 15, 16, 17, 18, 19, 20.
      b. Some animals can crawl. Page **14.**
      c. Some animals can swim. Pages 3, **14,** 15, 16, 17.
      d. Some animals can fly. Pages 3, **14,** 15, 16, 17.
      e. Some animals can use two or more methods of locomotion. Pages 3, **14,** 15, 16, 17.
   2. Most animals find or build homes. Pages **22, 23.**
      a. Most birds make nests. Page **22.**
      b. Some animals make colony homes. Page **22.**
      c. Some animals use shelters they find available. Page **22.**
      d. Man must provide shelter for domesticated animals. Pages 11, 21, **23.**

3. Animals must have food to live and grow. Pages 10, 11, 12, 13, 15, 16, 17, **18**, 19, 20, 21.
   a. Animals can find food in the environment. Pages 13, 15, 16, 17, **18**, 19, 20, 21, 68, 69.
   b. Some animals eat more than one type of food. Pages **18**, 19, 20, 21.
   c. Animals that are domesticated by man must be fed by him. Pages 6, 11, **21**, 23, 68.

D. Man uses animals for various purposes.
   1. Some animals provide pleasant companionship. Pages 11, **21**, 23, 28, 38.
   2. Some animals provide man with food or clothing. Pages 23, **24**.
   3. Some animals assist man in his work. Pages 5, **23**, 32, 33, 51.
   4. Some wild animals are confined in order to provide opportunities to observe and study them. Page **23**.

## UNIT II: Machines

A. A machine is any implement or device that aids in doing work.
   1. Some machines help us to do work with a minimum of muscular energy. Pages 25, 26, 27, 29, **30**, 31, 32, 33, 34-35, 36-37, 38.
   2. Some machines help us to work rapidly. Pages 25, 26, 27, 29, 30, 31, **32**, 33, 34-35, 36-37.
   3. Engine-run machines have greater power than man or animal-run machines. Pages 25, 26, 27, 29, 32, **33**, 34-35, 36.
      a. Engine-run machines can move heavier loads. Pages **33**, 34-35.
      b. Engine-run machines can do work more quickly. Pages 27, **33**, 34-35, 36.
      c. Engine-run machines can do more work in a given period of time. Pages 32, **33**, 34-35, 36.
   4. Machines and tools are valuable only in so far as they are intelligently chosen and manipulated to solve a problem. Pages 29, 30, **34-35**, 36-37, 38.

B. Electricity is a source of power.
   1. It provides light in our homes. Pages 25, **26**, 28, 29.
   2. It provides energy to run machines. Pages 25, **26**, 27, 29, 36, 40.
   3. It provides energy to run systems of communication and transportation. Pages 25, 32, **33**.
   4. It provides an efficient and convenient source of power. Pages 25, **26**, 27, 28, 36.
      a. Electric machines do work faster. Pages 26, **27**.
      b. Electric machines do work with less effort. Pages 26, **27**.
      c. Electrical devices are turned on and off. Pages 25, 26, 27, **28**, 29, 36.
      d. Electricity is ready for instant use. Pages 25, 26, 27, **28**, 29, 36.

## UNIT III: Days and Days

A. There are many kinds of weather.
   1. Sun, rain, snow, and wind are elements of weather. Pages 39, **40**, 41, 42, 43, 44-45, 46-47, 48-49, 50-51, 52.
   2. Weather combinations vary. Pages 40, 41, 42, 43, **44-45**, 46-47.
   3. Weather changes often. Pages **40**, 42, 43, 46-47.

4. There are usually definite indications of weather changes and we are often able to predict weather on the basis of these. Pages **40, 41,** 42, 43, 44-45.

B. Seasons have characteristic weather conditions.
   1. The seasons are summer, autumn, winter, spring. Pages 39, 40, 41, 42, 43, 44-45, 46, **48-49,** 50-51, 52, 53, 58-59, 62, 68-69.
   2. Weather varies from season to season. Pages 39, 43, 44-45, **48-49,** 50-51 52. 58-59, 62, 68-69.
   3. Weather varies within a season. Pages 40, 41, 42, 43, 44-45, **46-47.**

C. People adjust their activities and clothing to changes in weather and season. Pages 39, **40,** 42, 43, 44-45, 46-47, 48-49, 50-51, 52, 62, 68-69.

## UNIT IV: Outdoors

A. There are many kinds of plants.
   1. Most common plants that we know have roots, stems, flowers, branches, and leaves and produce seeds. Pages 53, 54, 55, **57,** 58-59, 66.
   2. Plants have distinguishing features by which we can tell one from another. Pages 53, **54,** 55, 56, 60-61, 62, 63, 64, 66, 68-69.
      a. Flower or fruit color and size are common distinguishing features. Pages **54,** 55, 56, 57, 64.
      b. Size, shape, and color of leaves are common distinguishing features. Pages 53, 56, 62, **63,** 64.
      c. General shape and size and growing habits may be distinguishing features. Pages 53, 54, **55,** 60-61, 62, 63, 64, 65, 68-69.

B. Plants are living things and grow and reproduce their kind.
   1. Plants are alive. Pages **56,** 60-61.
   2. Many plants grow from seed. Pages **58-59,** 64, 66.
   3. Plants follow a definite pattern of growth. Pages 57, **58-59,** 62, 63, 64.
   4. Seeds produce the same kind of plant as the parent plant. Pages **58-59,** 64, 66.

C. People and animals use plants in various ways.
   1. Some plants are used for food or clothing. Pages 53, **64,** 65, 66, 68-69.
   2. Some plants provide man or animals with shelter. Pages 53, 62, **63,** 67, 68-69.
   3. Some plants provide aesthetic pleasure. Pages 53, 54, 55, 56, 57, **60-61,** 62, 67, 68-69.

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